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Order from OTS or SLA \$1.60

61-16870

Trans. of Uspekhi Khimii (USSR) 1940, v. 9, no. 5,
p. 498-521.

DESCRIPTORS: *Hydrocarbons, *Acetylenes,
Synthesis.

The first part of a program of synthesis of acetylenes and evaluation of their antiknock properties is reported. The literature on the subject is reviewed, physical constants of 57 known acetylenes are tabulated and a bibliography given comprising 115 items including unpublished work of the author and his co-workers. Blending octane numbers of five acetylenes were obtained. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16870

I. Petrov, A. D.
II. Azatyan, V. D.

161700

Office of Technical Services

Petroleum as a Source of Raw Material for
Preparation of Rubber-Foaming Compounds, by
H. A. Lur'ye.

RUSSIAN, per, Uspekhi Khim, Vol IX, No 6, 1940,
pp 609-628.

OTS 61-16874

189,527

Sci
Mar 62

Vol VII, No 2

Shatenshteyn, A. L.
CHIMIE DES SOLUTIONS DANS L'AMMONIAC
LIQUIDE, tr. by M. Fedorovsky. 27 Oct 60 (14)p.
21 refs. CEA Trans. no: R 1052 (text in French).
Order from OTS or SLA \$1.60 61-15795

Trans. in French of Uspekhi Khimii (USSR) 1940
[v. 9] p. 950-954.

DESCRIPTORS: *Ammonia, *Liquefied gases, Gas,
Solubility, *Solutions, Solvent action.

61-15795

I. Shatenshteyn, A. L.
II. CEA-tr-R1052
III. Commissariat à l'Énergie
Atomique (France)

169701

Office of Technical Services

(Chemistry--Physical, TT, v. 6, no. 2)

Platz, A. F.
CATALYTIC AROMATIZATION OF PARAFFIN HY-
DROCARBONS. (1946) 20p. 82 refs.
Order from OTS or SLA \$2.60

61-16877

Trans. of Usp. khim. (USSR) 1946, v. 2, no. 11/12,
p. 1301-1332.

DESCRIPTORS: *Hydrocarbons. *Aliphatic compounds,
Synthesis, Catalysts.

The experimental material on catalytic aromatization of
paraffins reported in the scientific and patent literature
up to 1946 is reviewed, giving a brief history of the
problem and citing some early Russian work on the sub-
ject. This material is far from exhausting the problem,
and much information in this field remains unstated or
hidden behind patent claims. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16877

1. Platz, A. F.

16877

Office of Technical Services

Progress in the Chemistry of Scandium During the
Last Ten Years, by V. V. Tscherbina, 17 pp.
UNCLASSIFIED
RUSSIAN, no par, Uspekhi Khim., Vol IX, 1940, pp 1333--.

AEC 3111

Sci - Chem

Feb 58

58, 094

61-20359

PROGRESS OF CHEMISTRY, 1941, VOL. 10, NO. 1:
[TABLE OF CONTENTS] AND SELECTED AB-
STRACT. [1961] 3p. 15 refs.
Order from OTS or SLA \$1.10

61-20359

Abstract trans. of Uspekhi Khimii (USSR) 1941, v. 10,
no. 1, p. 1-5.

DESCRIPTORS: Chemistry, Abstracting, *Oxidation,
*Carbon compounds, *Monoxides.

(Chemistry, TT, v. 7, no. 5)

Office of Technical Services

Balandin, A. A.
CATALYSIS AND THE CHANGE OF MOLECULAR
FORM. [1961] 34p. 132 refs.
Order from OTS or SLA \$3.60 61-16915

Trans. of *Uspekhi Khimii* (USSR) 1941, v. 10,
p. 262-293.

DESCRIPTORS: *Catalysis, Molecular structure,
Hydrocarbons, Dehydrogenation, Hydrogenation,
*Molecular isomerism, *Benzenes.

An account of the researches in the application of catal-
ysis to organic chemistry pursued by N. D. Zelinskii
during 57 years up to 1941 is given, including investiga-
tions of some of his students. The investigations of his
school are reviewed pertaining to the phenomenon of
selective dehydrogenation leading to formation of
aromatics from naphthenes at 300°C, but leaving unaf-
fected those naphthenes which cannot be converted into
(Chemistry--Organic, TT, v. 6, no. 8) (over)

61-16915

1. Title: Naphthene
1. Balandin, A. A.

135125

Office of Technical Services

Frank-Kamenetskii, D. A.
KINETICS OF COMPLEX REACTIONS. I. HOMO-
GENEOUS REACTIONS. [1962] 9p. 88 refs.
Order from OTS or SLA \$1.10 62-10887

[Condensed] trans. of Uspexhi Khimii (USSR) 1941,
v. 10, no. 4, p. 373-415.

DESCRIPTORS: *Reaction kinetics, *Hydrocarbons,
Polymerization, Decomposition, Catalysis,
Bibliography.

(Chemistry--Physical, TT, v. 8, no. 7)

62-10887

I. Frank-Kamenetskii, D. A.
II. Title: Homogeneous ...

Office of Technical Services

Frank-Kamenetskii, D. A.
KINETICS OF COMPLEX REACTIONS. II. HETERO-
GENEOUS REACTIONS. [1961] 4p. 37 refs.
Order from OTS or SLA \$1.10 62-10888

Condensed trans. of Uspekhi Khimii (USSR) 1941,
v. 10, no. 5, p. 544-558.

DESCRIPTORS: *Reaction kinetics, *Chemical
reactions.

(Chemistry--Physical, TT, v. 7, no. 12)

62-10888

I. Frank-Kamenetskii, D. A.
II. Title: Heterogeneous ...

Office of Technical Services

62-10889

Bogdanov, I. F.
ACADEMICIAN ALEKSEI EVGRAFOVICH FAVOR-
SKII, STALIN PRIZE LAUREATE. [1961] 4p. 14 refs.
Order from OTS or SLA \$1.10 62-10889

I. Bogdanov, I. F.
II. Favorovskii, A. E.

Condensed trans. of Uspekhi Khimii (USSR) 1941,
v. 10, no. 6, p. 654-661.

DESCRIPTORS: *Rubber, *Isoprene, Acetylenes,
Isomeric transitions, Polymers.

(Chemistry--Organic, TT, v. 7, no. 12)

Office of Technical Services

Spontaneous Fission of Uranium, by L. I.
Rusinov, 11 pp.

RUSSIAN, per, Voprosy Khim, Vol X, 1961,
pp 662-670.

ABC CP-2250

Sci - ~~Phys~~ Chem
20 Oct 60

129,740

Kuz'minskii, A. S.
OXIDATION OF RUBBER POLYMERS. [1961] 4p.
27 refs.
Order from OTS or SLA \$1.10

62-10890

Condensed trans. of Uspehi Khimii (USSR) 1941,
v. 10, no. 7, p. 825-844.

DESCRIPTORS: *Polymers, *Rubber, Oxidation,
Oxygen, Diffusion, Sulfur, Vulcanization, Rubber
plasticizers.

(Chemistry--Organic, TT, v. 7, no. 12)

62-10890

I. Kuz'minskii, A. S.

Office of Technical Services

Platc, A. F.
METHODS OF PREPARATION OF TOLUENE. [1961]
25p. 138 refs.
Order from OTS or SLA \$2.60

61-16977

Trans. of Uspekhi Khimii (USSR) 1943, v. 12,
p. 189-208.

DESCRIPTORS: *Toluenes, Synthetals.

A review of Russian and non-Russian published information on the methods of preparation of toluene is given including its isolation from coal tar and from natural petroleum, as well as production by pyrolysis of natural hydrocarbon gases, processing of cracked gases, pyrolysis of fractions of petroleum oil, destructive hydrogenation of coal and shales, conversion of other aromatics, catalytic dehydrogenation of methylcyclohexane and catalytic cyclization of heptane. The highest yield of coal tar toluene corresponds to a coking temperature of 700 or 800°. (Author)
(Chemistry--Organic, TT, v. 6, no. 7)

61-16977

I. Platc, A. F.

16977

Office of Technical Services

Frost, A. V.
CATALYTIC AND CONTACT METHODS OF DESULFURIZATION OF OIL PRODUCTS. [1961] 6p. 40 refs.
Order from OTS or SLA \$1.10 61-16926

Condensed trans. of Uspekhi Khimii (USSR) 1943,
v. 12, p. 209-215.

DESCRIPTORS: *Oils, *Sulfur, Separation, *Catalysts,
*Hydrogenation, Decomposition, Gasoline, Kerosene,
Impurities:

A review of methods of desulfurization is given, including hydrogenation, thermal decomposition of sulfur compounds, bauxite treatment, desulfurization with phosphoric acid on coke, treatment with oxides of aluminum or zinc, clay refining, copper salt process and treatment with iron ore. Concerning the last mentioned method, it is asserted that iron-containing contacts may give a complete desulfurization of oil distillates. (Engineering-Chemical, TT, v. 6, no. 8) (over)

61-16926

1. Title: Desulfurization
1. Frost, A. V.

105126

Office of Technical Services

Uspekhi Khimii, XII, No. 4, 1949,
p. 253

V. V. Lebedinskiy, "Ya. K. Syzhin"

NOV 1 1950

Usp. Khim., No 7, 1943 P. 245-255

"Stalin Laureates in Chemistry
for 1943" V.V. Ledinskiy

NOV 1 1950